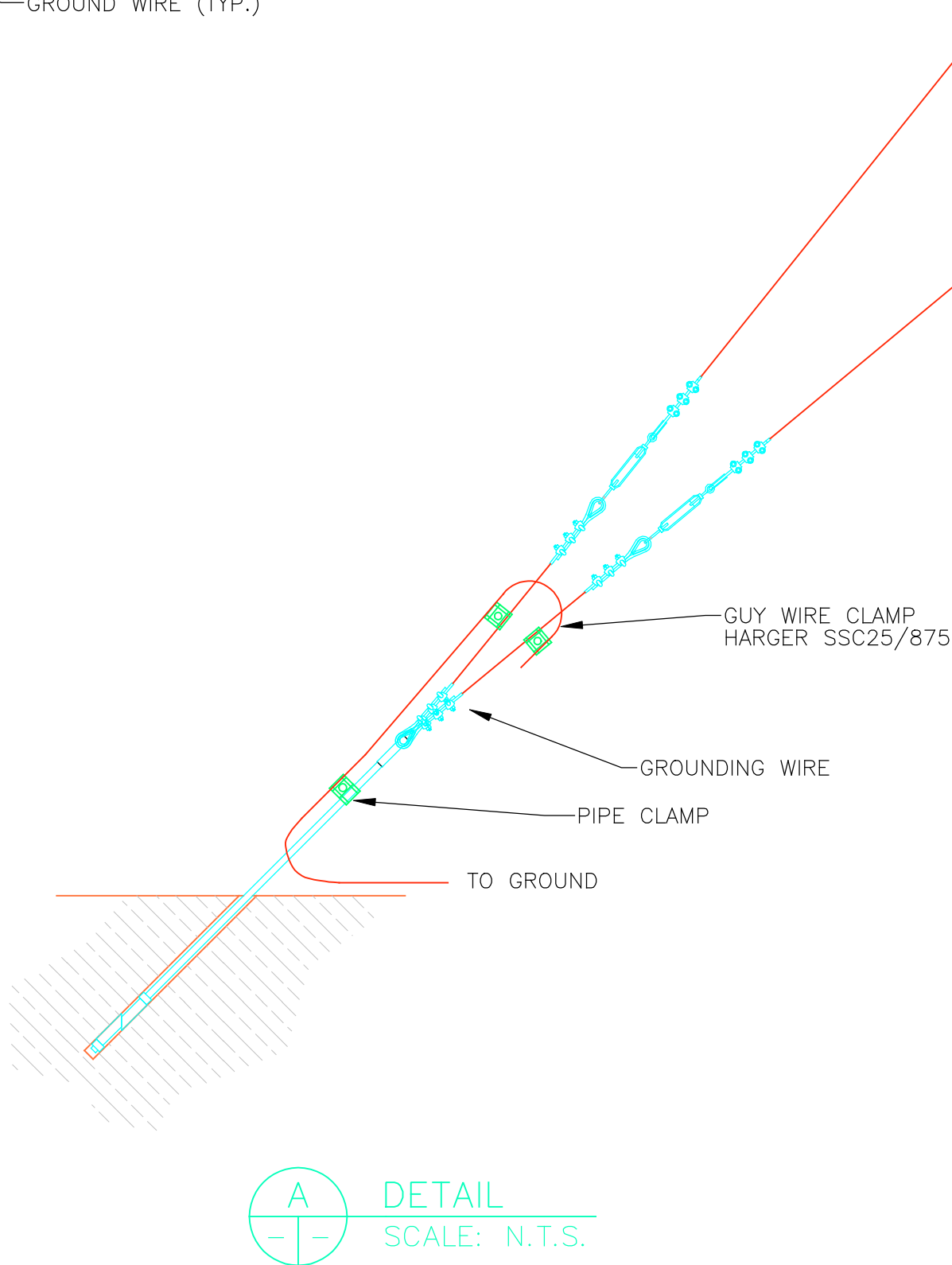
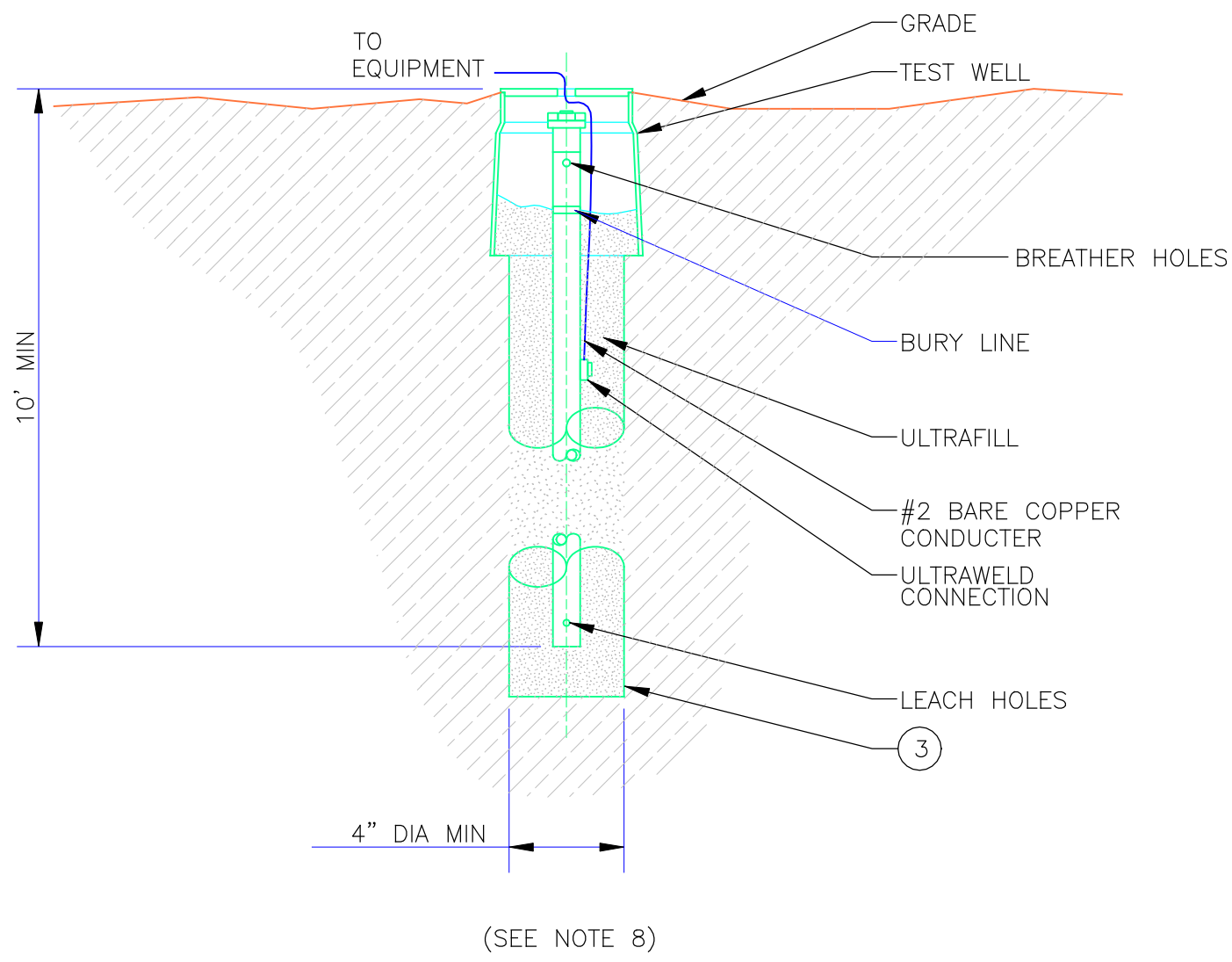


- NOTES:**
1. INSTALL EARTH ELECTRODE SYSTEM (EES) PRIOR TO BUILDING AND TOWER FOUNDATIONS. INSTALL EES AS FOLLOWS:  
A. BORE VERTICAL CORE DEEP ENOUGH FOR 10' EGR AND WIDE ENOUGH TO ACCOMMODATE GROUND ACCESS WELL,  
B. PRE-FILL CORE WITH 6" OF 'ULTRAFILL' BEFORE INSERTING EGR,  
C. REMOVE TAPE FROM EGR,  
D. INSERT VERTICAL EGR,  
E. FILL WITH 'ULTRAFILL' TO THE FILL LINE,  
F. CONNECT TO CONDUCTOR,  
G. PLACE GROUND ACCESS WELL,  
H. FINISH APPLICATION.
  2. COPPER WIRE AND GROUND ROD CONNECTIONS ARE EXOTHERMIC WELDED, PER FAA-STANDARD-19E.
  3. PROVIDE ALL EXOTHERMIC WELDS AND TEST PER FAA-STANDARD-19E.
  4. PROVIDE DIGITAL PHOTOGRAPHS OF EES CONSTRUCTION INCLUDING TRENCH WORK AND EXOTHERMICAL CONNECTIONS. LABEL EACH PHOTOGRAPH PROPERLY INDICATING DATE, LOCATION (NW, SE, ETC. CORNER).
  5. PROVIDE GROUND RESISTIVITY TEST RESULTS PER FAA-STANDARD-19E.
  6. GROUND RODS ARE INTERCONNECTED BY A BARE, #4/0 AWG, BARE COPPER CABLE.
  7. LEAVE 10' LENGTHS OF COILED CABLE AT BASE OF TOWER 1, 2 AND 3, THE EQUIPMENT SHELTER, SATELLITE DISH FOUNDATION AND TILT-UP TOWER FOUNDATION FOR FUTURE GROUNDING CONNECTIONS.
  8. THE WEATHER TOWER AND SATELLITE DISH PEDESTALS ARE GUYED TO EACH OTHER AND TWO ADDITIONAL GUYS RADIATE 120 ° FROM CENTERLINE. THERE ARE TWO ROCK ANCHORS PER TOWER DRILLED INTO THE BEDROCK AND GROUTED WITH FOUNDU. THE GUYS ARE 1/4" AIRCRAFT WIRE WITH TURN BUCKLES FOR TENSIONING.
  9. ANCHOR AND GROUNDING SUBJECT TO CHANGE BASED ON SITE CONDITIONS.

- LEGEND:**
- GROUND ROD
  - EXOTHERMIC WELD

MATERIAL PART LIST			
LIGHTNING GROUNDING AND BONDING			
ITEM NO.	MANUFACTURER	PART NO.	QTY.
①	3/4"x10'-0" COPPER ENHANCED CHEMICAL GROUND ROD SYSTEM /W TEST WELLS.		15 EA
②	#4/0 AWG CU BARE STRANDED WIRE (EES AND STRUCTURE PIG-TAILS)		200 FT
③	'ULTRAFILL'		20 BAGS



FOR OFFICIAL USE ONLY					
REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION WESTERN SERVICE AREA ANCHORAGE, AK					
SSO RODS INSTALLATION - ELECTRICAL PLAN VIEW EARTH ELECTRODE SYSTEM AND GROUND DETAILS					
VARIOUS			ALASKA		
REVIEWED BY		SUBMITTED BY	APPROVED BY		
		R.J.VASSAR	STEVE HOUSER, MANAGER		
		PROJECT ENGINEER	COMMUNICATIONS ENGINEERING CENTER		
		DESIGNED	ISSUED BY		DATE
		DRAWN	TECHNICAL OPERATIONS		DRAWING NO
		CHECKED	ENGINEERING SERVICES		REV
			ALD-XXXA-E17		A